



B / 2634

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 7017**  
Mitsuaki OSHIMA et al. : Docket No. 2000\_1327  
Serial No. 09/672,948 : Group Art Unit 2634  
Filed September 29, 2000 : Examiner A. Le  
COMMUNICATION SYSTEM :

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Patentees request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application  
PCT/\_\_\_\_\_; and/or
- ☐ each reference previously cited in prior parent application Serial No.  
\_\_\_\_\_.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, **or**

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

**and thus no certification and/or fee is required.**

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

**the certification of paragraph 2 below is provided, and**

**the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:

- a. ☐ a full or partial English language translation submitted herewith,
- b. ☐ a foreign patent office search report (in the English language) submitted herewith,
- c. ☐ the concise explanation contained in the specification of the present application at page,
- d. ☒ the concise explanation set forth in the attached English language abstract,
- e. ☒ the concise explanation set forth below or on a separate sheet attached to the reference:

Japanese Patent No. 3-69295 corresponds to U.S. Patent No. 5,128,758  
Japanese Patent No. 2-260726 corresponds to U.S. Patent No. 5,038,402

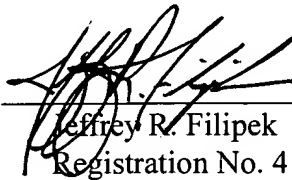
5. ☒ A foreign patent office search report citing one or more of the references is enclosed.
6. ☐ Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Mitsuaki OSHIMA et al.

By



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March 22, 2005

## INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 ( modified )

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
2000\_1327SERIAL NO.  
09/672,948LIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary )APPLICANT  
Mitsuaki OSHIMA et al.

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FILING DATE  
September 29, 2000GROUP  
2634

MAR 22 2005

U.S. PATENT &amp; TRADEMARK OFFICE

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,824,548	7-16-74	Sullivan et al.			
	AB	3,959,726	5-25-76	Hinoshita et al.			
	AG	4,303,939	12-1-81	Stephens et al.			
	AD	4,303,941	12-1-81	Marti et al.			
	AE	4,309,726	1-5-82	Tanaka et al.			
	AF	4,535,352	8-85	Haskell			
	AG	4,564,858	1-14-86	Resch			
	AH	4,581,639	4-8-86	Judge			
	AI	4,769,819	9-6-88	Matsutani et al.			
	AJ	4,794,447	12-27-88	Tsinberg			
	AK	4,817,192	3-28-89	Phillips et al.			
	AL	5,029,003	7-91	Jonnalagadda			
	AM	5,134,464	7-28-92	Basile et al.			
	AN	5,400,084	3-21-95	Scarpa			
	AD	4,800,426	1-24-89	Glenn			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AP						

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	
	AR	

EXAMINER

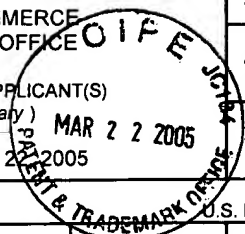
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09/672,948U.S. DEPARTMENT OF COMMERCE  
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,181,112	1-19-93	Citta et al.			
	AB	5,377,051	12-27-94	Lane et al.			
	AC	5,576,902	11-19-96	Lane et al.			
	AD	5,218,622	6-8-93	Fazel et al.			
	AE	5,598,220	1-97	Citta et al.			
	AF	5,802,241	9-1-98	Oshima			
	AG	5,007,088	4-9-91	Ooi et al.			
	AH	5,214,656	5-25-93	Chung et al.			
	AI	5,170,413	12-8-92	Hess et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AJ	3-69295	3-25-91	Japan				X
	AK	2-260726	10-23-90	Japan				X
	AL	58-161427	9-26-83	Japan			abstract	
	AM	57-39629	3-4-82	Japan			abstract	
	AN	58-161547	9-26-83	Japan			abstract	

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	
	AP	
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EXAMINER

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,128,758	7-7-92	Azadegan et al.			
	AB	5,038,402	8-6-91	Robbins			
	AC	5,638,112	6-10-97	Bestler et al.			
	AD	5,063,445	11-5-91	Nishizawa et al.			
	AF	5,819,000	10-6-98	Oshima			
	AF	5,999,569	12-7-99	Oshima			
	AG	5,892,879	4-6-99	Oshima			
	AH	6,049,651	4-11-00	Oshima			
	AI	6,256,357	7-3-01	Oshima			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AJ	63-180222	7-25-88	Japan			abstract	
	AK	2-94814	4-5-90	Japan			abstract	
	AL	61-70861	4-11-86	Japan			abstract	
	AM	2-218279	8-30-90	Japan			abstract	
	AN	2,095,435	5-10-92	Canada			X	
	AO	91/20137	12-26-91	WO			X	
	AP	92/22162	12-10-92	WO			X	

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.